

## Batch Script - Process

In this chapter, we will discuss the various processes involved in Batch Script.

### Viewing the List of Running Processes

In Batch Script, the TASKLIST command can be used to get the list of currently running processes within a system.

### Syntax

```
TASKLIST [/S system [/U username [/P [password]]]] [/M [module] | /SVC | /V] [/FI fi
[/FO format] [/NH]
```

Following are the description of the options which can be presented to the TASKLIST command.

### Examples

TASKLIST

The above command will get the list of all the processes running on your local system. Following is a snapshot of the output which is rendered when the above command is run as it is. As you can see from the following output, not only do you get the various processes running on your system, you also get the memory usage of each process.

Image Name	PID	Session Name	Session#	Mem Usage
System Idle Process	0	Services	0	4 K
System	4	Services	0	272 K
smss.exe	344	Services	0	1,040 K
csrss.exe	528	Services	0	3,892 K
csrss.exe	612	Console	1	41,788 K
wininit.exe	620	Services	0	3,528 K
winlogon.exe	648	Console	1	5,884 K
services.exe	712	Services	0	6,224 K

lsass.exe	720	Services	0	9,712 K
svchost.exe	788	Services	0	10,048 K
svchost.exe	832	Services	0	7,696 K
dwm.exe	916	Console	1	117,440 K
nvvsvc.exe	932	Services	0	6,692 K
nvxdsync.exe	968	Console	1	16,328 K
nvvsvc.exe	976	Console	1	12,756 K
svchost.exe	1012	Services	0	21,648 K
svchost.exe	236	Services	0	33,864 K
svchost.exe	480	Services	0	11,152 K
svchost.exe	1028	Services	0	11,104 K
svchost.exe	1048	Services	0	16,108 K
wlanext.exe	1220	Services	0	12,560 K
conhost.exe	1228	Services	0	2,588 K
svchost.exe	1276	Services	0	13,888 K
svchost.exe	1420	Services	0	13,488 K
spoolsv.exe	1556	Services	0	9,340 K

```
tasklist > process.txt
```

The above command takes the output displayed by tasklist and saves it to the process.txt file.

```
tasklist /fi "memusage gt 40000"
```

The above command will only fetch those processes whose memory is greater than 40MB. Following is a sample output that can be rendered.

Image Name	PID	Session Name	Session#	Mem Usage
=====	=====	=====	=====	=====
dwm.exe	916	Console	1	127,912 K
explorer.exe	2904	Console	1	125,868 K
ServerManager.exe	1836	Console	1	59,796 K
WINWORD.EXE	2456	Console	1	144,504 K
chrome.exe	4892	Console	1	123,232 K
chrome.exe	4976	Console	1	69,412 K
chrome.exe	1724	Console	1	76,416 K
chrome.exe	3992	Console	1	56,156 K
chrome.exe	1168	Console	1	233,628 K
chrome.exe	816	Console	1	66,808 K

## Killing a Particular Process

Allows a user running Microsoft Windows XP professional, Windows 2003, or later to kill a task from a Windows command line by process id (PID) or image name. The command used for this purpose is the TASKKILL command.

## Syntax

```
TASKKILL [/S system [/U username [/P [password]]]] { [/FI filter]  
[/PID processid | /IM imagename] } [/T] [/F]
```

Following are the description of the options which can be presented to the TASKKILL command.

## Examples

```
taskkill /f /im notepad.exe
```

The above command kills the open notepad task, if open.

```
taskkill /pid 9214
```

The above command kills a process which has a process of 9214.

## Starting a New Process

DOS scripting also has the availability to start a new process altogether. This is achieved by using the START command.

## Syntax

```
START "title" [/D path] [options] "command" [parameters]
```

Wherein

- **title** – Text for the CMD window title bar (required.)
- **path** – Starting directory.
- **command** – The command, batch file or executable program to run.
- **parameters** – The parameters passed to the command.

Following are the description of the options which can be presented to the START command.

### Examples

```
START "Test Batch Script" /Min test.bat
```

The above command will run the batch script test.bat in a new window. The windows will start in the minimized mode and also have the title of “Test Batch Script”.

```
START "" "C:\Program Files\Microsoft Office\Winword.exe" "D:\test\TESTA.txt"
```

The above command will actually run Microsoft word in another process and then open the file TESTA.txt in MS Word.